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A system for performing induced limb movements, particularly for rehabilitating, sports-related and similar purposes, comprising a central processing unit, at least one peripheral unit that is adapted to be used by a patient in order to reproduce a rehabilitation path displayed by the processing means, the peripheral unit being provided with position sensors that are adapted to transmit position signals to the processing unit in order to reconstruct the path traced by the patient on the processing unit. The machine also provides a comparison of the rehabilitation path with the path traced by the patient.